

## ABSTRACT

The present invention provides an image decoding apparatus, a semiconductor device, and a image decoding method, capable of outputting images simultaneously using different formats. In the image decoding apparatus, an MPEG decoding portion 1 decodes an inputting coded data and stores the decoded data in an external memory 5 portion 12. A decoded data reading portion 2 reads decoded data in the image output sequence from the external memory portion 12 and outputs the decoded data as the decoded data signal B1. A first image format converting portion 3-1 converts the decoded data signal B1 into a prescribed image format and outputs a first image output. 10 Furthermore, a second image format converting portion 3-2 converts the decoded data signal B1 into a prescribed image format and outputs a second image output after synchronizing a second vertical image synchronizing signal A2, which is synchronized with a first vertical image synchronizing signal A1.